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## RAW SEQUENCE LISTING

DATE: 01/29/2003

PATENT APPLICATION: US/10/045,574A

TIME: 08:28:30

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01292003\J045574A.raw

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4 <110> APPLICANT: MACKAY, Fabienne
5   KALLED, Susan
8 <120> TITLE OF INVENTION: BAFF, Inhibitors Thereof and Their Use
9   in the Modulation of B-Cell Response and Treatment of
10  Autoimmune Disorders
12 <130> FILE REFERENCE: 08201.0024-01000
14 <140> CURRENT APPLICATION NUMBER: 10/045,574A
15 <141> CURRENT FILING DATE: 2001-11-07
17 <150> PRIOR APPLICATION NUMBER: 60/117,169
18 <151> PRIOR FILING DATE: 1999-01-25
20 <150> PRIOR APPLICATION NUMBER: 60/143,228
21 <151> PRIOR FILING DATE: 1999-07-09
23 <150> PRIOR APPLICATION NUMBER: PCT/US00/01788
24 <151> PRIOR FILING DATE: 2000-01-25
26 <150> PRIOR APPLICATION NUMBER: 09/911,777
27 <151> PRIOR FILING DATE: 2001-07-24
29 <160> NUMBER OF SEQ ID NOS: 22
31 <170> SOFTWARE: FastSEQ for Windows Version 4.0
33 <210> SEQ ID NO: 1
34 <211> LENGTH: 218
35 <212> TYPE: PRT
36 <213> ORGANISM: Homo Sapien
38 <400> SEQUENCE: 1
39 Met Asp Asp Ser Thr Glu Arg Glu Gln Ser Arg Leu Thr Ser Cys Leu
40 1          5          10          15
41 Lys Lys Arg Glu Glu Met Lys Leu Lys Glu Cys Val Ser Ile Leu Pro
42          20          25          30
43 Arg Lys Glu Ser Pro Ser Val Leu Leu Ser Cys Cys Leu Thr Val Val
44          35          40          45
45 Ser Phe Tyr Gln Val Ala Ala Leu Gln Gly Asp Leu Ala Ser Leu Arg
46          50          55          60
47 Ala Glu Leu Gln Gly His His Ala Glu Lys Leu Pro Ala Gly Ala Lys
48 65          70          75          80
49 Ile Phe Glu Pro Pro Ala Pro Gly Glu Gly Asn Ser Ser Gln Asn Ser
50          85          90          95
51 Arg Asn Lys Arg Ala Val Gln Gly Pro Glu Glu Thr Val Thr Gln Asp
52          100         105         110
53 Cys Leu Gln Leu Ile Ala Asp Ser Glu Thr Pro Thr Ile Gln Lys Gly
54          115         120         125
55 Ser Tyr Thr Phe Val Pro Trp Leu Leu Ser Phe Lys Arg Gly Ser Ala
56          130         135         140
57 Leu Tyr Gly Gln Val Leu Tyr Thr Asp Lys Thr Tyr Ala Met Gly His
58 145         150         155         160

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59 Leu Ile Gln Arg Lys Lys Val His Val Phe Gly Asp Glu Leu Ser Leu
60      165      170      175
61 Val Thr Leu Phe Arg Cys Ile Gln Asn Leu Glu Glu Gly Asp Glu Leu
62      180      185      190
63 Gln Leu Ala Ile Pro Arg Glu Asn Ala Gln Ile Ser Leu Asp Gly Asp
64      195      200      205
65 Val Thr Phe Phe Gly Ala Leu Lys Leu Leu
66      210      215
67 <210> SEQ ID NO: 2
68 <211> LENGTH: 232
69 <212> TYPE: PRT
70 <213> ORGANISM: Murine
72 <400> SEQUENCE: 2
73 Met Asp Glu Ser Ala Lys Thr Leu Pro Pro Pro Cys Leu Cys Phe Cys
74 1      5      10      15
75 Ser Glu Lys Gly Glu Asp Met Lys Val Gly Tyr Asp Pro Ile Thr Pro
76      20      25      30
77 Gln Lys Glu Glu Gly Ala Val Leu Leu Ser Ser Ser Phe Thr Ala Met
78      35      40      45
79 Ser Leu Tyr Gln Leu Ala Ala Leu Gln Ala Asp Leu Met Asn Leu Arg
80      50      55      60
81 Met Glu Leu Gln Ser Tyr Arg Gly Ser Ala Thr Pro Ala Ala Ala Lys
82 65      70      75      80
83 Leu Leu Thr Pro Ala Ala Pro Arg Pro His Asn Ser Ser Arg Gly His
84      85      90      95
85 Arg Asn Arg Arg Ala Phe Pro Gly Pro Glu Glu Thr Glu Gln Asp Val
86      100      105      110
87 Asp Leu Ser Ala Pro Pro Ala Leu Arg Asn Ile Ile Gln Asp Cys Leu
88      115      120      125
89 Gln Leu Ile Ala Asp Ser Asp Thr Pro Thr Ile Arg Lys Gly Thr Tyr
90      130      135      140
91 Thr Phe Val Pro Trp Leu Leu Ser Phe Lys Arg Gly Asn Ala Leu Tyr
92 145      150      155      160
93 Ser Gln Val Leu Tyr Thr Asp Pro Ile Phe Ala Met Gly His Val Ile
94      165      170      175
95 Gln Arg Lys Lys Val His Val Phe Gly Asp Glu Leu Ser Leu Val Thr
96      180      185      190
97 Leu Phe Arg Cys Ile Gln Asn Leu Glu Glu Gly Asp Glu Ile Gln Leu
98 - - - 195 - - - 200      205
99 Ala Ile Pro Arg Glu Asn Ala Gln Ile Ser Arg Asn Gly Asp Asp Thr - - -
100      210      215      220
101 Phe Phe Gly Ala Leu Lys Leu Leu
102 225      230
103 <210> SEQ ID NO: 3
104 <211> LENGTH: 102
105 <212> TYPE: PRT
106 <213> ORGANISM: Homo Sapien
108 <400> SEQUENCE: 3
109 Val Thr Gln Asp Cys Leu Gln Leu Ile Ala Asp Ser Glu Thr Pro Thr

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110 1 5 10 15
111 Ile Gln Lys Gly Ser Tyr Thr Phe Val Pro Trp Leu Leu Ser Phe Lys
112 20 25 30
113 Arg Gly Ser Ala Leu Glu Glu Lys Tyr Gly Gln Val Leu Tyr Thr Asp
114 35 40 45
115 Lys Thr Tyr Ala Met Gly His Leu Ile Gln Arg Lys Lys Val His Val
116 50 55 60
117 Phe Gly Asp Glu Leu Ser Asn Asn Ser Cys Tyr Ser Ala Gly Ile Ala
118 65 70 75 80
119 Lys Leu Glu Glu Gly Asp Glu Leu Gln Leu Ala Ile Pro Arg Glu Asn
120 85 90 95
121 Ala Gln Ile Ser Leu Asp
122 100
123 <210> SEQ ID NO: 4
124 <211> LENGTH: 96
125 <212> TYPE: PRT
126 <213> ORGANISM: Homo Sapien
128 <400> SEQUENCE: 4
129 Lys Gln His Ser Val Leu His Leu Val Pro Ile Asn Ala Thr Ser Lys
130 1 5 10 15
131 Asp Asp Ser Asp Val Thr Glu Val Met Trp Gln Pro Ala Leu Arg Arg
132 20 25 30
133 Gly Arg Gly Leu Gln Ala Gln Tyr Ser Gln Val Leu Phe Gln Asp Val
134 35 40 45
135 Thr Phe Thr Met Gly Gln Val Val Ser Arg Glu Gly Gln Gly Arg Ala
136 50 55 60
137 Tyr Asn Ser Cys Tyr Ser Ala Gly Val Phe His Leu His Gln Gly Asp
138 65 70 75 80
139 Ile Leu Ser Val Ile Ile Pro Arg Ala Arg Ala Lys Leu Asn Leu Ser
140 85 90 95
141 <210> SEQ ID NO: 5
142 <211> LENGTH: 104
143 <212> TYPE: PRT
144 <213> ORGANISM: Homo Sapien
146 <400> SEQUENCE: 5
147 Ser Asp Lys Pro Val Ala His Val Val Ala Asn Pro Gln Ala Glu Gly
148 1 5 10 15
149 Gln Leu Gln Trp Leu Asn Arg Arg Ala Asn Ala Leu Leu Ala Asn Gly
150 - - - - - 20 - - - - - 25 - - - - - 30
151 Val Tyr Ser Gln Val Leu Phe Lys Gly Gln Gly Cys Pro Ser Thr His - - - - -
152 35 40 45
153 Val Leu Leu Thr His Thr Ile Ser Arg Ile Ala Val Ser Tyr Gln Thr
154 50 55 60
155 Glu Gly Ala Glu Ala Lys Pro Trp Tyr Glu Pro Ile Tyr Leu Gly Gly
156 65 70 75 80
157 Val Phe Gln Leu Glu Lys Gly Asp Arg Leu Ser Ala Glu Ile Asn Arg
158 85 90 95
159 Pro Asp Tyr Leu Asp Phe Ala Glu
160 100

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161 <210> SEQ ID NO: 6
162 <211> LENGTH: 97
163 <212> TYPE: PRT
164 <213> ORGANISM: Homo Sapien
166 <400> SEQUENCE: 6
167 Glu Leu Arg Lys Val Ala His Leu Thr Gly Lys Ser Asn Ser Arg Ser
168 1 5 10 15
169 Met Pro Leu Glu Trp Glu Asp Thr Tyr Gly Ile Val Leu Leu Ser Gly
170 20 25 30
171 Val Lys Tyr Ser Lys Val Tyr Phe Arg Gly Gln Ser Cys Asn Asn Leu
172 35 40 45
173 Pro Leu Ser His Lys Val Tyr Met Arg Asn Ser Lys Tyr Pro Gln Met
174 50 55 60
175 Trp Ala Arg Ser Ser Tyr Leu Gly Ala Val Phe Asn Leu Thr Ser Ala
176 65 70 75 80
177 Asp His Leu Tyr Val Asn Val Ser Glu Leu Ser Leu Val Asn Phe Glu
178 85 90 95
179 Glu
181 <210> SEQ ID NO: 7
182 <211> LENGTH: 102
183 <212> TYPE: PRT
184 <213> ORGANISM: Homo Sapien
186 <400> SEQUENCE: 7
187 Thr Leu Lys Pro Ala Ala His Leu Ile Gly Asp Pro Ser Lys Gln Asn
188 1 5 10 15
189 Ser Leu Leu Trp Arg Ala Asn Thr Asp Arg Ala Phe Leu Gln Asp Gly
190 20 25 30
191 Phe Tyr Ser Gln Val Val Phe Ser Gly Lys Ala Tyr Ser Pro Lys Ala
192 35 40 45
193 Thr Ser Ser Pro Leu Tyr Leu Ala His Glu Val Gln Leu Phe Ser Ser
194 50 55 60
195 Gln Tyr Pro Phe Pro Trp Leu His Ser Met Tyr His Gly Ala Ala Phe
196 65 70 75 80
197 Gln Leu Thr Gln Gly Asp Gln Leu Ser Thr His Thr Asp Gly Ile Pro
198 85 90 95
199 His Leu Val Leu Ser Phe
200 100
201 <210> SEQ ID NO: 8
202 <211> LENGTH: 109
203 <212> TYPE: PRT
204 <213> ORGANISM: Homo Sapien
206 <400> SEQUENCE: 8
207 Glu Ala Gln Pro Phe Ala His Leu Thr Ile Asn Ala Thr Asp Ile Pro
208 1 5 10 15
209 Ser Gly Ser His Lys Val Ser Leu Ser Ser Trp Tyr His Asp Arg Gly
210 20 25 30
211 Trp Gly Lys Ile Ser Asn Met Tyr Ala Asn Ile Cys Phe Arg His His
212 35 40 45
213 Glu Thr Ser Gly Asp Leu Ala Thr Glu Tyr Leu Gln Leu Met Val Tyr

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```

214      50                      55                      60
215 Val Thr Lys Thr Ser Ile Lys Ile Pro Ser Glu Phe His Phe Tyr Ser
216 65                      70                      75                      80
217 Ile Asn Val Gly Gly Phe Phe Lys Leu Arg Ser Gly Glu Glu Ile Ser
218                      85                      90                      95
219 Ile Glu Val Ser Asn Pro Ser Leu Leu Asp Pro Asp Gln
220                      100                      105
221 <210> SEQ ID NO: 9
222 <211> LENGTH: 26
223 <212> TYPE: DNA
224 <213> ORGANISM: Homo Sapien
226 <400> SEQUENCE: 9
227 actgtttctt ctggaccctg aacggc                                26
229 <210> SEQ ID NO: 10
230 <211> LENGTH: 30
231 <212> TYPE: DNA
232 <213> ORGANISM: Homo Sapien
234 <400> SEQUENCE: 10
235 gacaagcttg ccaccatgga tgactccaca                                30
237 <210> SEQ ID NO: 11
238 <211> LENGTH: 23
239 <212> TYPE: DNA
240 <213> ORGANISM: Homo Sapien
242 <400> SEQUENCE: 11
243 actagtcaca gcagtttcaa tgc                                23
245 <210> SEQ ID NO: 12
246 <211> LENGTH: 22
247 <212> TYPE: DNA
248 <213> ORGANISM: Homo Sapien
250 <400> SEQUENCE: 12
251 ctgcagggtc cagaagaaac ag                                22
253 <210> SEQ ID NO: 13
254 <211> LENGTH: 24
255 <212> TYPE: DNA
256 <213> ORGANISM: Homo Sapien
258 <400> SEQUENCE: 13
259 ggagaaggca actccagtca gaac                                24
261 <210> SEQ ID NO: 14
262 <211> LENGTH:- 24 -----
263 <212> TYPE: DNA
264 <213> ORGANISM: Homo Sapien
266 <400> SEQUENCE: 14
267 caattcatcc ccaaagacat ggac                                24
269 <210> SEQ ID NO: 15
270 <211> LENGTH: 22
271 <212> TYPE: DNA
272 <213> ORGANISM: Homo Sapien
274 <400> SEQUENCE: 15
275 tcggaacaca acgaaacaag tc                                22

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VERIFICATION SUMMARY

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